### PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 16 JUN 2005

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Applicant's or agent's file reference 18981/846	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/IB 03/04368	International filing date (daylmon) 02.10.2003	hth/year) Priority date (day/month/year) 02.10.2003
International Patent Classification (IPC) or b B66B5/28	oth national classification and IPC	
Applicant OTIS ELEVATOR COMPANY		
This international preliminary example Authority and is transmitted to the second control of the second c	amination report has been prepa e applicant according to Article :	ared by this International Preliminary Examining 36.
2. This REPORT consists of a total	of 5 sheets, including this cove	er sheet.
been emended and are the	anied by ANNEXES, i.e. sheets be basis for this report and/or she on 607 of the Administrative Inst	s of the description, claims and/or drawings which have sets containing rectifications made before this Authority structions under the PCT).
These annexes consist of a tota		
3. This report contains indications	relating to the following items:	
I 🛛 Basis of the opinion		
Ⅱ □ Priority		
III   Non-establishment of	of opinion with regard to novelty	, inventive step and industrial applicability
IV □ Lack of unity of inve	ntion	
V 🛛 Reasoned statemen citations and explan	nt under Rule 66.2(a)(ii) with reg ations supporting such stateme	pard to novelty, inventive step or industrial applicability; ent
VI		
	ne international application	
VIII □ Certain observation	s on the international application	n
		of completion of this report
Date of submission of the demand	Date	e of completion of this report
02.08.2004	17.0	06.2005
Name and mailing address of the internal preliminary examining authority:	tional Autr	horized Officer
preliminary examining authority:  ———————————————————————————————————	P.B. 5818 Patentlaan 2	nssens, G
Tel. +31 70 340 - 2040 Tx:	: 31 651 epo nl	ephone No. +31 70 340-4588

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١.	<b>Basis</b>	of the	report

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages			
	1-7		as originally filed		
	Cla	ims, Numbers			
	1-1	1	as originally filed		
	Dra	wings, Sheets			
	1/3-	3/3	as originally filed		
<ol><li>With regard to the language, all the elements marked above were available or furnished to this Authority in language in which the international application was filed, unless otherwise indicated under this item.</li></ol>					
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:		
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).		
		the language of pub	lication of the international application (under Rule 48.3(b)).		
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).		
3.	Witl inte	h regard to any <b>nucl</b> e rnational preliminary	ectide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:		
		contained in the inte	rnational application in written form.		
		filed together with th	e international application in computer readable form.		
		furnished subseque	ntly to this Authority in written form.		
		furnished subsequer	ntly to this Authority in computer readable form.		
		The statement that t in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.		
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.		
4.	The	amendments have r	resulted in the cancellation of:		
		the description,	pages:		
		the claims,	Nos.:		
		the drawings,	sheets:		

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5. □	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	10 mod (1 mid 70.2(0)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-11

No: Claims

Inventive step (IS) Yes: Claims 1-11

No: Claims

Industrial applicability (IA) Yes: Claims 1-11

No: Claims

2. Citations and explanations

see separate sheet

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: JP 2000203774 (25-07-00)

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows (the references in parentheses applying to this document):

Safety device for maintenance personnel in elevators having no machine room and flexible tension member(7), the elevator booth comprising an upper median crosspiece (2) on its roof forming part of its support arcade, the drive machine being(9) fixed at least to the top of a booth guide rail (4) on the side of the casing of the elevator

The subject-matter of claim 1 differs from this known safety device in that it comprises, with symmetry with respect to the median traction plane of the booth or to the median plane of the set of flexible tension members, at least two rigid rods mounted sliding on the crosspiece on one side and approximately parallel to the latter and able to be moved in an active outgoing position projecting from the crosspiece so as to come opposite and simultaneously in contact with a corresponding stop fixed at an adequate height on the booth guide rail, and in an inactive incoming position where they are out of range of said stop corresponding to the normal functioning of

the elevator, the functioning in maintenance or inspection mode of the elevator by a maintenance operator on the booth roof only being allowed at the outgoing position of the rods where a safety space for the maintenance operator on a working platform on the booth roof is

embodied by the fact of applying the outgoing rods on said guide rail stop.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as to avoid that the support arcade suffers from torsional forces when the safety device contacts the guide rail stop. When the support arcade deforms under the torsional forces, this causes the tension

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member to shift on his pulleys mounted on the arcade.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

The symmetrical arrangement of the rods is not disclosed in the available prior art.

Claims 2-11 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.